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WAGNER, MURABITO & HAO LLP			DAY, HERNG DER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. O8/471,447 Examiner Art Unit Examiner Art Unit Hemg-der Day	The MAILING DATE of this communication ap Period for Reply	09/471,447 Examiner Herng-der Day	BEDICHEK ET AL. Art Unit	/				
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11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.	11)☐ The oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119	Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 	a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document	nts have been received. nts have been received in A	Application No					
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* See the attached detailed Office action for a list of the certified copies not received.		• • • •	received.					
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Attachment(s)	Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	3) 5) Notice of I	nformal Patent Application (PTO-152)					

Art Unit: 2128

DETAILED ACTION

- 1. This communication is in response to Applicants' Amendment and Response (paper # 15) to Office Action dated August 25, 2003 (paper # 14), mailed November 25, 2003, and received by PTO December 1, 2003.
- 1-1. Claims 16-32 are pending.
- 1-2. Claims 16-32 have been examined and rejected.

Drawings

2. The proposed drawing corrections to Figure 1 received by PTO on December 1, 2003, has been approved. The objection to the drawings has been withdrawn.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 16-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Kelly et al., U.S. Patent 5,832,205 issued November 3, 1998 (IDS, paper # 11, No. C).
- **4-1.** Regarding claim 16, Kelly et al. disclose a method of determining validity of a translated instruction comprising:

Art Unit: 2128

Page 3

- a) starting execution of a first host instruction translated from a first target instruction, wherein said first host instruction is linked from a second host instruction translated from a second target instruction, and wherein a first condition of a target system state required by said first host instruction holds (execution, column 23, lines 1-29);
- b) testing a second condition of said target system state to determine the validity of said first host instruction (condition of the T bit, column 23, lines 7-9);
- c) executing said first host instruction if said second condition holds; and d) generating an exception if said second condition does not hold (if an attempt to write to the target address occurs, the attempt generates an exception, column 23, lines 29-35).
- **4-2.** Regarding claim 17, Kelly et al. further disclose said first condition is based on an address consistency check of said second host instruction (condition of the A/N bit, column 23, lines 10-12).
- 4-3. Regarding claim 18, Kelly et al. further disclose said b) comprises performing an address consistency check of said first host instruction (condition of the T bit, column 23, lines 7-9).
- **4-4.** Regarding claim 19, Kelly et al. further disclose said b) comprises performing an address consistency check of said first host instruction (condition of the T bit, column 23, lines 7-9).
- **4-5.** Regarding claim 20, Kelly et al. further disclose said d) further comprises invalidating said first host instruction (invalidated, column 23, lines 32-35).
- **4-6.** Regarding claim 21, Kelly et al. further disclose said d) further comprises removing said link between said first host instruction and said second host instruction (committed original state may be recalled, column 12, line 66, through column 13, line 5).

Art Unit: 2128

4-7. Regarding claim 22, Kelly et al. further disclose said d) further comprises creating a new translation of said first target instruction (generation of new translations, column 13, line 65, through column 14, line 2).

- **4-8.** Regarding claim 23, Kelly et al. further disclose said d) further comprises interpreting said first target instruction (uncommitted memory stores may be dumped, column 12, line 66, through column 13, line 5).
- **4-9.** Regarding claim 24, Kelly et al. disclose a method of determining validity of a translated instruction comprising:
- a) performing a first address consistency check of a first host instruction made from a first target instruction to verify that said first host instruction is valid (condition of the T bit, column 23, lines 7-9);
 - b) executing said first host instruction (execution, column 23, lines 1-29);
- c) determining whether a second host instruction made from a second target instruction and that is linked from said first host instruction can be safely executed without a second address consistency check; and d) executing said second host instruction without performing said second address consistency check if safe (committed to memory, column 17, lines 1-39).
- 4-10. Regarding claim 25, Kelly et al. further disclose comprising:
- e) performing said second address consistency check if said determination is that it is unsafe to execute said second host instruction without said second address consistency check (condition of the T bit, column 23, lines 7-9); and
 - f) executing said second host instruction (execution, column 23, lines 1-29).

Page 4

Page 5

Application/Control Number: 09/471,447

Art Unit: 2128

- **4-11.** Regarding claim 26, Kelly et al. further disclose said c) is implied from said first address consistency check (the condition of the T bit indicating whether a translation has been accomplished for the target instruction is detected, column 23, lines 7-9).
- 4-12. Regarding claim 27, Kelly et al. further disclose multiple target instructions are translated to host instructions (subsequent target instructions, column 23, lines 15-18) and wherein said c) comprises determining whether any of said target instructions reside on different pages of memory (Compare, Fig 11).
- **4-13.** Regarding claim 28, Kelly et al. further disclose multiple target instructions are translated to host instructions (subsequent target instructions, column 23, lines 15-18) and wherein said c) comprises determining whether any of said target instructions reside on different pages of memory (Compare, Fig 11).
- **4-14.** Regarding claim 29, Kelly et al. disclose a method of linking translated instructions comprising:
- a) translating a first target instruction to a first host instruction (first three instructions in the sample, column 25);
- b) determining that said first host instruction is to be linked to a second host instruction translated from a second target instruction (next three instructions in the sample, column 25); and
- c) providing an address consistency check for said first host instruction (instructions chkl and chku in the sample, column 26).
- **4-15.** Regarding claim 30, Kelly et al. further disclose:

said b) comprises determining at the time said translation of said first target instruction is made that said first and second host instructions are to be linked (sample, column 26); and

Art Unit: 2128

said c) comprises:

- c1) linking said second host instruction to said first host instruction (sample, column 26; adding the second host instruction "mov" after the first host instruction "mov"); and
- c2) including code for performing said address consistency check as a part of said first host instruction (sample, column 26; including instructions "chkl" and "chku" to the first host instruction "mov").
- **4-16.** Regarding claim 31, Kelly et al. further disclose:
- said b) comprises determining after said translation of said first target instruction is made that said first and second host instructions are to be linked (sample, column 25); and said c) comprises:
- c1) linking said second host instruction to code for performing said address consistency check (sample, column 26; attaching the second host instruction "mov" to instructions "chkl" and "chku"); and
- c2) linking said code for performing said address consistency check to said first host instruction (sample, column 26; attaching instructions "chkl" and "chku" to the first host instruction "mov").
- 4-17. Regarding claim 32, Kelly et al. further disclose:
- said b) comprises determining after said translation of said first target instruction is made that said first and second host instructions are to be linked (sample, column 25); and said c) comprises:
- c1) linking said second host instruction to said first host instruction (sample, column 26; adding the second host instruction "mov" after the first host instruction "mov"); and

Art Unit: 2128

c2) incorporating code for performing said address consistency check into said first host instruction (sample, column 26; incorporating instructions "chkl" and "chku" to the first host instruction "mov").

Applicants' Arguments

- 5. Applicants argue the following:
- (1) "Applicants do not understand Kelly to teach or suggest using the T-bit to determine the validity of a host instruction" (pages 4-7, paper # 15).
 - (2) "Claim 24 is neither taught nor suggested by Kelly" (pages 7-8, paper # 15).
 - (3) "Claim 29 is neither taught nor suggested by Kelly" (pages 8-11, paper # 15).

Response to Arguments

- 6. Applicants' arguments have been fully considered but they are not persuasive.
- 6-1. Response to Applicants' argument (1). Kelly et al. disclose "the condition of the bit (T bit) indicating whether a translation has been accomplished for the target instruction is detected (column 23, lines 7-9). Therefore, Kelly et al. do disclose using the T-bit to determine the validity of a host instruction.
- 6-2. Response to Applicants' argument (2). Kelly et al. disclose "Memory stores positioned between the head of the queue and the gate are already committed to memory" (column 23, lines 7-9). Therefore, Kelly et al. do disclose using commit operation to determine whether a second host instruction can be safely executed without address consistency check.

Page 7

Art Unit: 2128

6-3. Response to Applicants' argument (3). Kelly et al. disclose "instruction chkl and chku" (column 26). Therefore, Kelly et al. do disclose providing an address consistency check for host instruction.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Herng-der Day whose telephone number is (703) 305-5269. The examiner can normally be reached on 9:00 - 17:30.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Kevin J Teska can be reached on (703) 305-9704. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Art Unit: 2128

Page 9

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Herng-der Day February 23, 2004

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